

REMARKS

The application has been amended and is believed to be in condition for allowance.

The last Official Action was not Final.

There are no formal matters outstanding.

Applicants acknowledge with appreciation that the Official Action indicated that claims 5 and 9 were directed to allowable subject matter.

New claim 11 is based on the recitations of allowable claim 5. Allowance of claim 11 is solicited.

Claims 1-4, 6-8 and 10 were rejected as anticipated by PUTHUFF 3,604,947.

For the reasons discussed below, applicants point out that the claims are not anticipated. Accordingly, reconsideration and allowance of all the claims are respectfully requested.

As an initial point of departure, PUTHUFF issued in 1971 and basically reveals what would now be called an "N-path filter". PUTHUFF lists numerous applications for using the N-path filter.

However, none of the applications disclosed in PUTHUFF correspond (satisfy) the recitations of the rejected claims. Without satisfying the claim recitations, there can be no anticipation.

The Official Action offers PUTHUFF as an electric device for detecting the presence of a signal of a certain frequency $f(t)$ in a line connection (11, 18). Applicants have reviewed the various applications of the PUTHUFF filter, do not see that any disclosed application detects the presence of a signal of a certain frequency $f(t)$ in a line connection (11, 18).

If the Official Action believes detection is disclosed, applicants respectfully request a detail explanation and identification of where such disclosure can be found.

As to the specifically recited structure/method see that the claims require measuring a value of a certain quantity comparable to the energy stored in each energy-storing component (claim 7), or as put in claim 1, coupled to said energy-storing components, means for measuring a certain quantity comparable to the energy stored from each energy-storing component.

The Official Action appears to offer element 22, shown in Figure 5, for this recitation.

Element 22 is the set of flip-flops 1 ... 17. These flip-flops define a ring counter connecting each capacitance to ground. This arrangement eliminates any stored charge and would not permit measuring a value of a certain quantity comparable to the energy stored in each energy-storing component.

In the invention, this measurement of a quantity that indicates the stored energy constitutes the signal-detecting part of the invention.

Reference is made to PUTHUFF column 3, beginning at line 63. There Figure 5 is discussed. The capacitor stages are connected in common to one end of input resistor 11, to which a signal source $f(t)$ is connected. Element 22 is a ring counter (column 4, line 53). The ring counter acts as a frequency divider (line 60) so that each output signal is phase shifted from the other output signals by $1/N$ cycles (line 61).

From this disclosure it is clear that element 22 does not satisfy the step of measuring a value of a certain quantity comparable to the energy stored in each energy-storing component (claim 7), or provide a means for measuring a certain quantity comparable to the energy stored from each energy-storing component (claim 1).

Therefore, there is no anticipation.

From the above, applicants believe it is clear that the presently-pending claims are patentable over the prior art. Accordingly, reconsideration and allowance of all the claims are respectfully requested.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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